

|   | Type | Hits | Search Text  | DBs  | Time Stamp           | Comments | Error Definition  | Errors |
|---|------|------|--|--|----------------------|----------|---|--------|
| 1 | BRS  | 27   | laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and (confinement near (region or layer or medium or film)) and refractive near (index or indice)   | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>2 08:07 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'541549' | 1      |
| 2 | BRS  | 22   | (laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and (confinement near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$  | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>2 08:48 |          |   | 0      |
| 3 | BRS  | 22   | (laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and (confinement near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$  | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>2 11:09 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'541860' | 1      |
| 4 | BRS  | 36   | (laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$                       | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>3 09:18 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'541860' | 1      |
| 5 | BRS  | 314  | (laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (waveguide or guide or optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>2 11:57 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'541860' | 1      |
| 6 | BRS  | 36   | (laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$                       | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/2<br>3 13:16 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'541860' | 1      |

|    | Type | Hits | Search Text  | DBs  | Time Stamp       | Comments | Error Definition | Errors |
|----|------|------|--|--|------------------|----------|------------------|--------|
| 7  | BRS  | 33   | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (conduction or band or group)  | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:25 |          |                  | 0      |
| 8  | BRS  | 10   | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (conduction near( band or group))  | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:30 |          |                  | 0      |
| 9  | BRS  | 0    | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (conduction near( band or group))) and (DX near level) and (fermi near level)              | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:37 |          |                  | 0      |
| 10 | BRS  | 0    | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (conduction near( band or group))) and ((DX near level) or (fermi near level)) and bandgap | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:40 |          |                  | 0      |

|    | Type | Hits | Search Text   | DBs  | Time Stamp       | Comments | Error Definition | Errors |
|----|------|------|---|--|------------------|----------|------------------|--------|
| 11 | BRS  | 8    | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (conduction near( band or group))) and (((DX near level) or (fermi near level)) or bandgap) | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:40 |          |                  | 0      |
| 12 | BRS  | 0    | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and ((DX near level) or (fermi near level)) and bandgap   | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:40 |          |                  | 0      |
| 13 | BRS  | 11   | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (((DX near level) or (fermi near level)) or bandgap)  | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:46 |          |                  | 0      |
| 14 | BRS  | 11   | ((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (((DX near level) or (fermi near level)) or bandgap)) and (clad\$ near\$4 bandgap)          | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:48 |          |                  | 0      |

|    | Type | Hits | Search Text  | DBs  | Time Stamp       | Comments | Error Definition | Errors |
|----|------|------|--|--|------------------|----------|------------------|--------|
| 15 | BRS  | 0    | (((laser near (device or semiconductor) and (clad\$ near (region or layer or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$ ) and (((DX near level) or (fermi near level)) or bandgap)) and (clad\$ near bandgap) | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 13:48 |          |                  | 0      |
| 16 | IS&R | 1    | ("4916708").PN.  | USPAT  | 2002/01/23 14:04 |          |                  | 0      |
| 17 | BRS  | 1    | ((("4916708").PN.) and (AlGaInP)   | USPAT;<br>US-PGPUB; EPO;<br>JPO; DERWENT;<br>IBM TDB | 2002/01/23 14:04 |          |                  | 0      |

|   | Type | L # | Hits | Search Text  | DBs   | Time Stamp          | Comments | Error Definition | Errors |
|---|------|-----|------|--|---|---------------------|----------|------------------|--------|
| 1 | BRS  | L8  | 0    | (dx adj level) and 372/\$                            | USP<br>AT;<br>US-P<br>GPU<br>B;<br>EPO;<br>JPO;<br>DER<br>WEN<br>T;<br>IBM<br>TDB | 2002/01/23<br>14:53 |          |                  | 0      |
| 2 | BRS  | L15 | 1    | (dx near level) and 372/\$                           | USP<br>AT;<br>US-P<br>GPU<br>B;<br>EPO;<br>JPO;<br>DER<br>WEN<br>T;<br>IBM<br>TDB | 2002/01/23<br>14:55 |          |                  | 0      |
| 3 | BRS  | L22 | 0    | (dx near level) and (fermi<br>near level) and 372/\$ | USP<br>AT;<br>US-P<br>GPU<br>B;<br>EPO;<br>JPO;<br>DER<br>WEN<br>T;<br>IBM<br>TDB | 2002/01/23<br>14:55 |          |                  | 0      |

|   | Type | L # | Hits | Search Text   | DBs   | Time Stamp       | Comments | Error Definition   | Errors |
|---|------|-----|------|---|---|------------------|----------|--|--------|
| 1 | BRS  | L1  | 587  | ((clad\$ near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice))                 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 07:45 |          |  | 0      |
| 2 | BRS  | L8  | 166  | ((clad\$ near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and low\$ near refractive near (index or indice))      | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 07:48 |          | Truncation Overflow. Return string from Server is: 5'0'0'CLA | 1      |
| 3 | BRS  | L9  | 166  | ((clad\$ near (region or layer or medium or film)) and ((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))    | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 09:04 |          | Truncation Overflow. Return string from Server is: 5'0'0'CLA | 1      |
| 4 | BRS  | L10 | 119  | 9 and 372/\$  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 07:55 |          |  | 0      |
| 5 | BRS  | L18 | 85   | 10 and ((optical near guid\$ near (region or layer or medium or film)) or waveguide or wavelenght)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 08:01 |          | Truncation Overflow. Return string from Server is: 5'1277721 | 1      |
| 6 | BRS  | L17 | 8    | 10 and (optical near guid\$ near (region or layer or medium or film))   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 09:10 |          | Truncation Overflow. Return string from Server is: 5'1277721 | 1      |
| 7 | BRS  | L21 | 39   | ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 09:08 |          | Truncation Overflow. Return string from Server is: 5'0'0'CLA | 1      |
| 8 | BRS  | L22 | 29   | 21 and 372/\$   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/01/24 09:09 |          |  | 0      |

|   | Type | L # | Hits | Search Text  | DBs  | Time Stamp          | Comments | Error Definition  | Errors |
|---|------|-----|------|--|--|---------------------|----------|---|--------|
| 9 | BRS  | L29 | 0    | 22 and (optical near guide\$<br>near (region or layer or<br>medium or film)) | USPAT; US-PGPUB;<br>EPO; JPO;<br>DERWENT; IBM<br>TDB | 2002/01/24<br>09:11 |          | Truncation<br>Overflow.<br>Return<br>string from<br>Server is:<br>5'1277721 | 1      |